

# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOO	ATTORNEY DOCKET NO.				
09/502,478	9/502,478 02/11/2000		Kira Sterling Attwood		RSW9-99-	RSW9-99-129			
25259	7590	10/04/2003			EXAMINER				
IBM CORPORATION					HO, THOMAS M				
3039 CORNWALLIS RD. DEPT. T81 / B503, PO BOX 12195					ART UNI	Т	PAPER NUMBER		
		ANGLE PARK, N	C 27709		2134				
					DATE MAILED: 10/04/2003		$_{_3}$ $arphi$ .		

Please find below and/or attached an Office communication concerning this application or proceeding.

				<\^\					
	Application N	lo.	Applicant(s)	a					
Office Assistance Comments	09/502,478		ATTWOOD ET AL.						
Office Action Summary	Examiner		Art Unit						
	Thomas M Ho		2134						
The MAILING DATE of this communication apperiod for Reply	pears on the co	ver sheet with the c	orrespondence add	dress					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).  Status	136(a). In no event, he statutory within the statutory will apply and will expense the application.	owever, may a reply be tim minimum of thirty (30) days sire SIX (6) MONTHS from on to become ABANDONEI	ely filed  will be considered timely the mailing date of this co (35 U.S.C. § 133).						
1) Responsive to communication(s) filed on 2/1	<u>1/00</u> .								
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ The	his action is noi	n-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. <b>Disposition of Claims</b>									
4)⊠ Claim(s) <u>1-16</u> is/are pending in the application	n.								
4a) Of the above claim(s) is/are withdra		leration.							
5) Claim(s) is/are allowed.									
6)⊠ Claim(s) <u>1-16</u> is/are rejected.									
7) Claim(s) is/are objected to.									
8) Claim(s) are subject to restriction and/o	or election requ	irement.							
Application Papers									
9)☐ The specification is objected to by the Examine	er.								
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b)□ obj	ected to by the Exar	miner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
11) The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner.									
If approved, corrected drawings are required in reply to this Office action.									
12) The oath or declaration is objected to by the Ex	xaminer.								
Priority under 35 U.S.C. §§ 119 and 120									
13) Acknowledgment is made of a claim for foreig	n priority under	· 35 U.S.C. § 119(a	)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:									
1. Certified copies of the priority documents have been received.									
2. Certified copies of the priority documents have been received in Application No									
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>									
14)☐ Acknowledgment is made of a claim for domest	tic priority unde	r 35 U.S.C. § 119(e	e) (to a provisional	application).					
a) The translation of the foreign language pro									
Attachment(s)									
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5)	Notice of Informal F	(PTO-413) Paper No( Patent Application (PT						

#### **DETAILED ACTION**

1. Claims 1-16 are pending.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-3, 5-7, 9-11, 13-15 are rejected under 35 U.S.C. 102(e) as being anticipated by Chuah.

In reference to claim 1:

(Chuah column 37, lines 35-41) discloses a method of preventing a flooding attack on a network server in which a large number of requests are received for connection to a port number on the server, comprising:

 Determining, in response to a request from a host for a connection to a port number on the server, if the number of connections to the port assigned to the host exceeds a prescribed threshold, and if so, denying the request for a connection, where in Application/Control Number: 09/502,478

Art Unit: 2134

Chuah the decision to admit a new user is determined based on checking if the current total associated users is less than the threshold, M.

In reference to claim 2:

(Chuah column 37, lines 41-55 and figure 19) discloses the method of claim 1 in which denying the request further comprises:

Overriding the denial and allowing the request if a quality of service parameter
pertaining to the requesting host permits the override, where in Chuah, the denial
where (k<= M) is false, is circumvented, by disconnecting a lower priority
connection.</li>

In reference to claim 3:

(Chuah, column 38, lines 4-14) discloses the method of claim 2 wherein a connection request is denied in any event if the number of available connections to the port are less than a constrained threshold.

Chuah reveals the connection is denied in any event when the total number of admitted hosts is not less than the maximum number of total connections and there are no available hosts of a lower priority to disconnect.

Page 3

Art Unit: 2134

The condition "the request is denied in any event if the number of available connections to the port are less than a constrained threshold" is inherent to Chuah's disclosure, where the connection is denied when the total number of admitted hosts is not less than the maximum number of total connections,

Claims 5-7 are rejected for the same reasons as claims 1-3, respectively.

Claims 9-11 are rejected for the same reasons as claims 1-3 respectively.

Claims 13-15 are rejected for the same reasons as claims 1-3 respectively.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4,8,12,16 rejected under 35 U.S.C. 103(a) as being unpatentable over Chuah.

In reference to claim 4:

Chuah discloses the methods of claims 1, 2, and 3.

Chuah fails to disclose calculating the prescribed threshold by multiplying a percentage P by the number of available connections remaining for the port as used for claims 1, 2, and 3.

The examiner takes official notice that it is well known in the art to express a threshold or boundary as a fractional value such as a ratio or percentage, especially in boundaries involving connections and traffic, such as the one disclosed by (Chuah column 35, lines 21-23)

Additionally, it is well known that to check whether a quantity remained in a fractional boundary such as a ratio or percentage, one can multiply the ratio or percentage by the total permissible value and compare it to the value in question. A benefit of this is that the boundary may be dynamically computed rather that remain a fixed value which may not be accurate in all circumstances.

It would have been obvious to one of ordinary skill in the art at the time of invention to calculate the connection admission threshold in claims 1, 2, and 3, by multiplying a percentage P by the number of available connections remaining for the port, given the benefit of establishing a threshold using a ratio or percentage, (which may be dynamically computed) rather than using a fixed value threshold.

Page 5

Application/Control Number: 09/502,478

Art Unit: 2134

Claims 8,12, and 16 are rejected for the same reasons as claim 4.

#### **Conclusion**

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas M Ho whose telephone number is (703)305-8029. The examiner can normally be reached on M-F from 8:30am – 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory A. Morse can be reached at (703)308-4789. The fax phone numbers for the organization where this application or proceeding is assigned are (703)746-7239 for regular communications and (703)746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)306-5484.

**TMH** 

September 30<sup>th</sup>, 2003

GREGORY MORSE
SUPERVISORY PATENT EXAMINER

Page 6

**TECHNOLOGY CENTER 2100**